

Supplementary Material:

**6'-Amino-5,7-Dibromo-2-Oxo-3'-(Trifluoromethyl)-
1'*H*-Spiro[Indoline-3,4'-Pyrano[2,3-*c*]Pyrazole]-
5'-Carbonitrile**

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¹H, ¹³C and ¹⁹F NMR, IR and MS spectra for compound 4

Figure S1. ^1H NMR spectrum of dimethyl 2-(2,4-diamino-3-cyano-5*H*-chromeno[2,3-*b*]pyridin-5-yl)malonate **4** in $\text{DMSO-}d_6$.

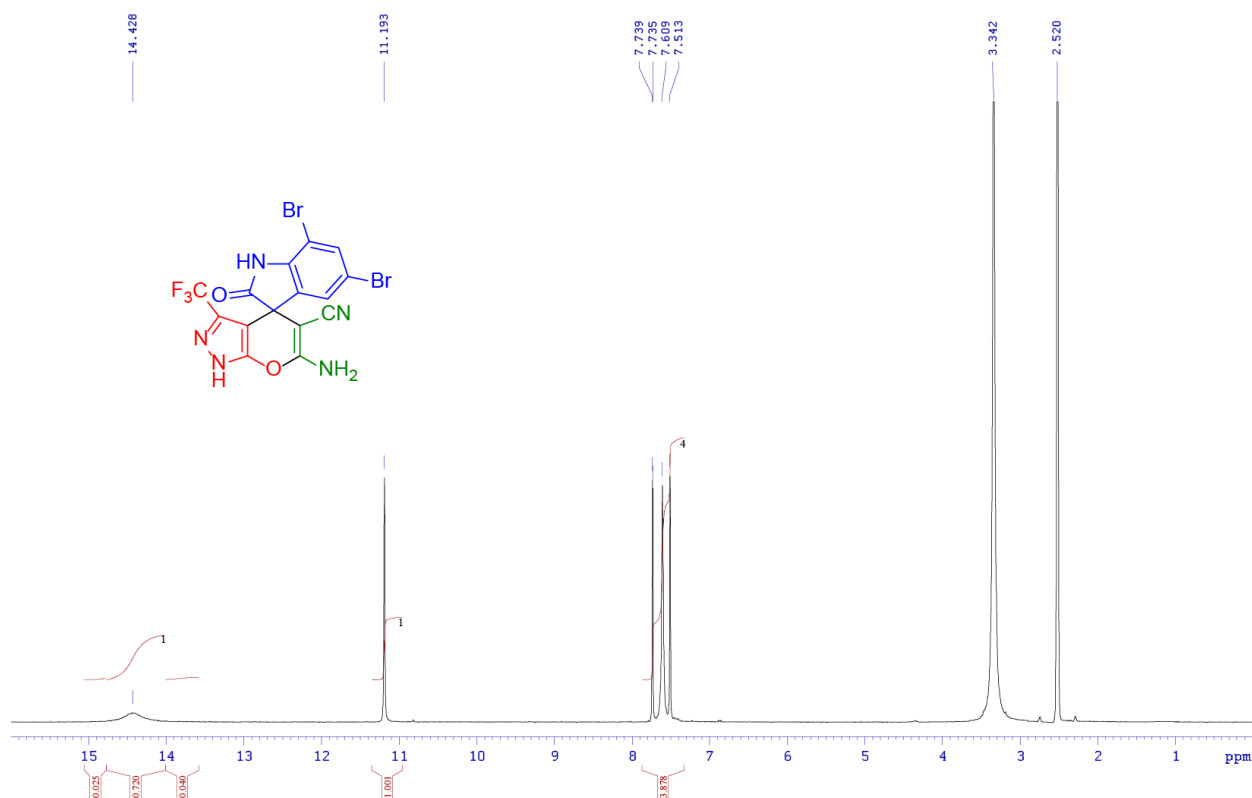


Figure S2. ^{13}C NMR spectrum of dimethyl 2-(2,4-diamino-3-cyano-5*H*-chromeno[2,3-*b*]pyridin-5-yl)malonate **4** in $\text{DMSO-}d_6$.

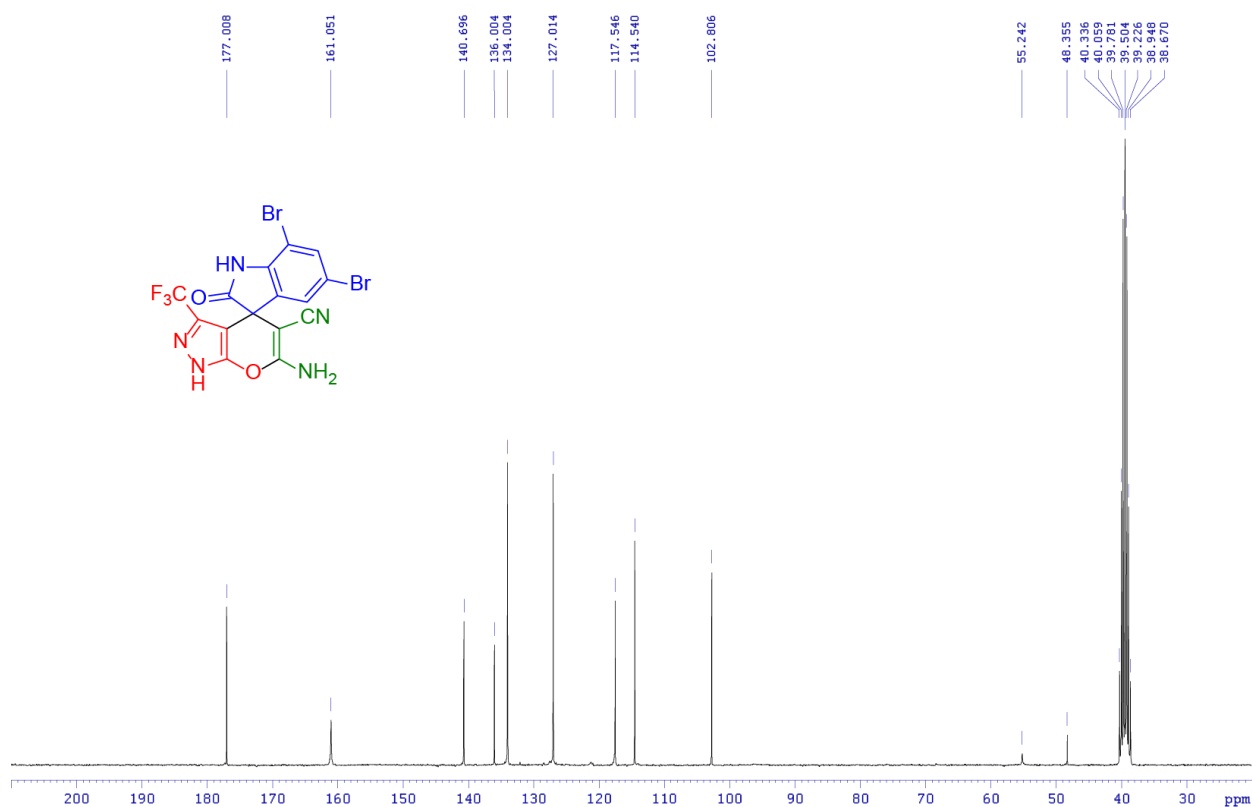


Figure S3. ^{19}F NMR spectrum of dimethyl 2-(2,4-diamino-3-cyano-5*H*-chromeno[2,3-*b*]pyridin-5-yl)malonate **4** in acetone- d_6 .

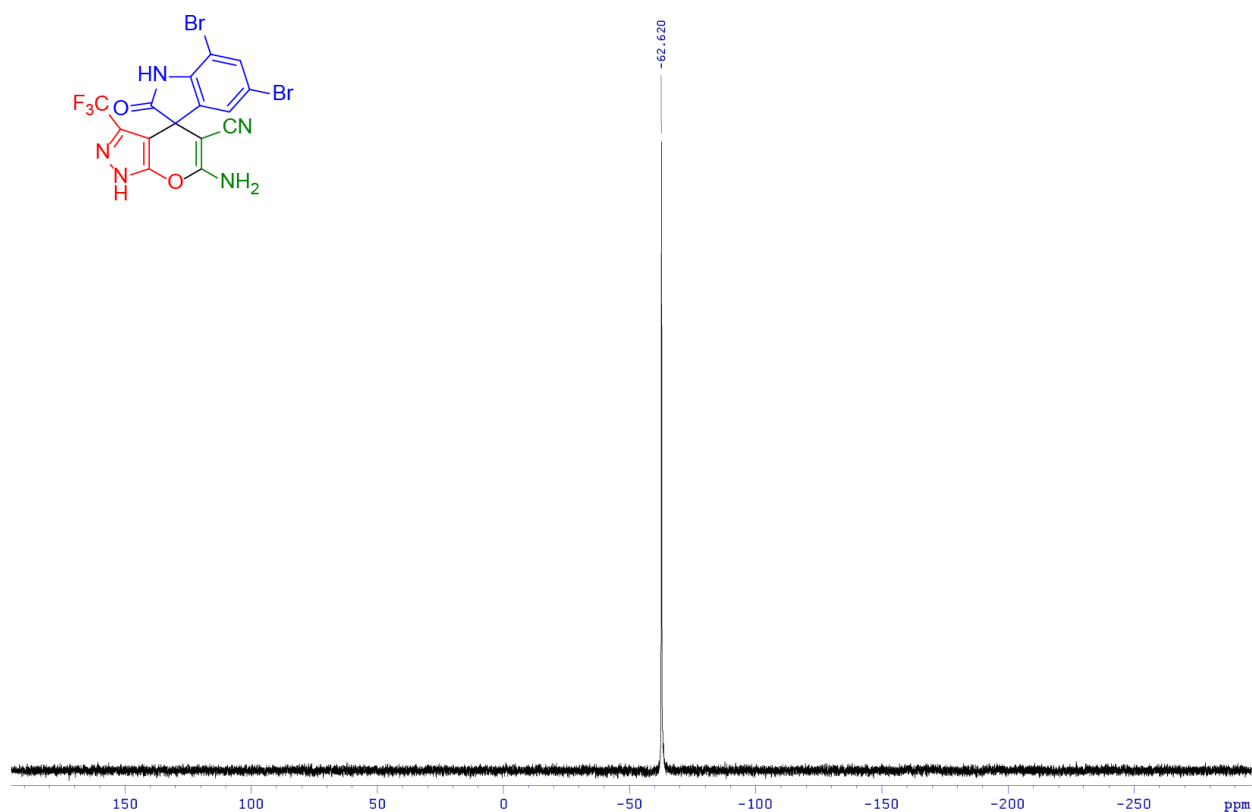


Figure S4. IR spectrum of dimethyl 2-(2,4-diamino-3-cyano-5*H*-chromeno[2,3-*b*]pyridin-5-yl)malonate **4** (KBr).

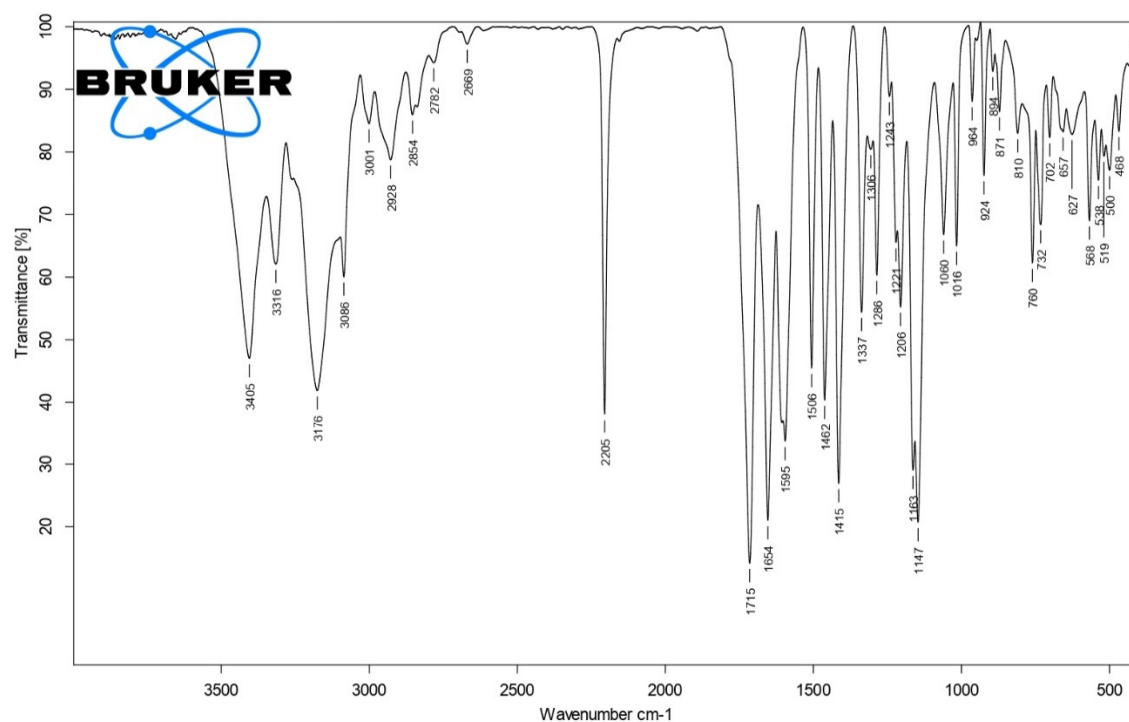


Figure S5. MS (EI) spectrum of dimethyl 2-(2,4-diamino-3-cyano-5*H*-chromeno[2,3-*b*]pyridin-5-yl)malonate **4**.

